

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| | | (driv\$ near circuit) and differential and transistor\$1 and ("3v" near (power adj supply)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:24 |
| | | (voltage near headroom) and (driv\$ near circuit) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:23 |
| L1 | 133 | 372/38.03.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:30 |
| L2 | 31 | 1 and (driv\$3 near3 (diode or transistor\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:31 |
| L3 | 292 | 372/38.07.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:52 |
| L4 | 122 | 3 and (driv\$3 near3 (diode or transistor\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:53 |
| L5 | 131 | 372/29.01.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:52 |
| L6 | 42 | 5 and (driv\$3 near3 (diode or transistor\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:53 |
| S1 | 47 | headroom adj voltage | US-PGPUB; USPAT | OR | OFF | 2002/10/28 09:53 |
| S2 | 0 | (headroom adj voltage) and vcsel | US-PGPUB; USPAT | OR | OFF | 2002/10/28 09:47 |
| S3 | 0 | (headroom adj voltage) and laser adj diode | US-PGPUB; USPAT | OR | OFF | 2002/10/28 09:53 |
| S4 | 0 | (headroom adj voltage) and semiconductor adj laser | US-PGPUB; USPAT | OR | OFF | 2002/10/28 09:48 |
| S5 | 3 | (headroom adj voltage) and laser | US-PGPUB; USPAT | OR | OFF | 2002/10/28 09:48 |
| S6 | 194 | headroom near voltage | US-PGPUB; USPAT | OR | OFF | 2002/10/28 09:53 |

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| S7 | 0 | (headroom near voltage) and vcsel | US-PGPUB; USPAT | OR | OFF | 2002/10/28 09:53 |
| S8 | 1 | (headroom near voltage) and laser adj diode | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:19 |
| S9 | 45 | vcsel and differential adj amplifier | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:20 |
| S10 | 43 | (vcsel and differential adj amplifier) and driv\$3 | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:21 |
| S11 | 0 | ((vcsel and differential adj amplifier) and driv\$3) and three adj volts | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:22 |
| S12 | 7 | ((vcsel and differential adj amplifier) and driv\$3) and bias and modulats\$3 | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:25 |
| S13 | 0 | ((vcsel and differential adj amplifier) and driv\$3) and bjt | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:25 |
| S14 | 14 | ((vcsel and differential adj amplifier) and driv\$3) and transistor | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:36 |
| S15 | 0 | 327/38.02.ccls. and vcsel | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:36 |
| S16 | 0 | 327/38.02.ccls. | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:36 |
| S17 | 12 | 372/38.02.ccls. and vcsel | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:41 |
| S18 | 3 | 372/38.02.ccls. and headroom | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:44 |
| S19 | 0 | 372/38.03.ccls. and headroom | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:45 |
| S20 | 1 | 372/38.07.ccls. and headroom | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:45 |
| S21 | 1 | "372"/\$.ccls. and headroom and vcsel | US-PGPUB; USPAT | OR | OFF | 2002/10/28 10:45 |
| S22 | 2 | ((reduced or low) near (bias adj voltage)) and vcsel | US-PGPUB; USPAT | OR | OFF | 2002/10/28 11:55 |
| S23 | 735 | ((reduced or low) near (bias adj voltage)) | US-PGPUB; USPAT | OR | OFF | 2002/10/28 11:55 |
| S24 | 927 | ((reduced or low) near (bias adj voltage)) or (headroom near voltage) | US-PGPUB; USPAT | OR | OFF | 2002/10/28 11:56 |
| S25 | 153 | ((reduced or low) near (bias adj voltage)) or (headroom near voltage)) and laser | US-PGPUB; USPAT | OR | OFF | 2002/10/28 11:57 |
| S26 | 75 | ((reduced or low) near (bias adj voltage)) or (headroom near voltage)) and laser) and switch\$3 | US-PGPUB; USPAT | OR | OFF | 2002/10/28 11:58 |

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| S27 | 53 | (((((reduced or low) near (bias adj voltage)) or (headroom near voltage)) and laser) and switch\$3) and driv\$3 | US-PGPUB; USPAT | OR | OFF | 2002/10/28 11:58 |
| S28 | 45 | (((((reduced or low) near (bias adj voltage)) or (headroom near voltage)) and laser) and switch\$3) and driv\$3) and circuit | US-PGPUB; USPAT | OR | OFF | 2002/10/28 11:58 |
| S29 | 238 | voltage near headroom | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:05 |
| S30 | 2 | (voltage near headroom) and vcsel | US-PGPUB; USPAT | OR | OFF | 2003/04/16 16:25 |
| S31 | 2 | (voltage near headroom) and (semiconductor near laser) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 16:23 |
| S32 | 169 | (voltage near headroom) and differential | US-PGPUB; USPAT | OR | OFF | 2003/04/16 16:25 |
| S33 | 149 | ((voltage near headroom) and differential) and driv\$3 | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:01 |
| S34 | 9 | ((voltage near headroom) and differential) and driv\$3) and laser | US-PGPUB; USPAT | OR | OFF | 2003/04/16 16:26 |
| S35 | 3 | (modulat\$3 near current) and (bias\$3 near current) and (voltage near headroom) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:04 |
| S36 | 0 | (modulat\$3 near current) and (bias\$3 near current) and (voltage near headroom) | EPO; JPO; DERWENT | OR | OFF | 2003/04/16 17:04 |
| S37 | 155 | (voltage near headroom) and differential and transistor | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:05 |
| S38 | 136 | ((voltage near headroom) and differential and transistor) and driv\$3 | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:06 |
| S39 | 21 | ((voltage near headroom) and differential and transistor) and driv\$3) and (laser or led or ld or vcsel or (surface near emitting)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:22 |
| S40 | 75 | (voltage near headroom) and (driv\$3 near circuit) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:52 |
| S41 | 2 | (voltage near headroom) and (driv\$3 near circuit) and (current near modulat\$3) and (current near bias\$3) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:54 |
| S42 | 3 | (voltage near headroom) and (driv\$3 near circuit) and (differential near switch\$3) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:55 |
| S43 | 7 | (voltage near headroom) and (driv\$3 near circuit) and laser | US-PGPUB; USPAT | OR | OFF | 2003/04/16 17:57 |

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| S44 | 42 | (voltage near headroom) and (driv\$3 near circuit) and (low near voltage) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:02 |
| S45 | 42 | (voltage near headroom) and (driv\$3 near circuit) and (low near voltage) and ((power near supply) or (input near voltage)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:10 |
| S46 | 34 | (voltage near headroom) and (driv\$3 near circuit) and (low near voltage) and (power near supply) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:21 |
| S47 | 5 | ((voltage near headroom) and (driv\$3 near circuit) and (low near voltage) and ((power near supply) or (input near voltage))) and ("3v" or ("3" near volt\$1)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:11 |
| S48 | 0 | (driv\$3 near circuit) and differential and transistor\$1 and ("3v" near (power adj supply)) and headroom | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:25 |
| S49 | 12 | (driv\$3 near circuit) and differential and transistor\$1 and ("3v" near (power adj supply)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:26 |
| S50 | 0 | (driv\$3 near circuit) and headroom and ("3v" near (power adj supply)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:26 |
| S51 | 0 | (driv\$3 near circuit) and headroom and ("3v" near (input adj voltage)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:27 |
| S52 | 0 | (driv\$3 near circuit) and headroom and ("3v" near (vcc)) | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:28 |
| S53 | 6 | (driv\$3 near circuit) and headroom and "3v" | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:30 |
| S54 | 8 | lvds and driv\$3 and vcsel | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:31 |
| S55 | 77 | lvds and driv\$3 and laser | US-PGPUB; USPAT | OR | OFF | 2003/04/16 19:50 |
| S56 | 1 | lvds and driv\$3 and laser and headroom | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:39 |
| S57 | 8 | lvds and driv\$3 and headroom | US-PGPUB; USPAT | OR | OFF | 2003/04/16 18:39 |
| S58 | 2 | (voltage near headroom) and vcsel | US-PGPUB; USPAT | OR | OFF | 2003/04/19 11:38 |
| S59 | 2 | driv\$3 and vcsel and bjt and differential | US-PGPUB; USPAT | OR | OFF | 2003/04/16 19:51 |
| S60 | 1 | ("4709370").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2003/04/19 11:42 |

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| S61 | 0 | ("(semiconductor near laser) and (driver near circuit) and headroom").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2003/04/19 11:43 |
| S62 | 2 | (semiconductor near laser) and (driver near circuit) and headroom | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:27 |
| S63 | 16 | (semiconductor near laser) and (driver near circuit) and ("3" near volts) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:44 |
| S64 | 59 | (semiconductor near laser) and (driver near circuit) and differential and (bjt or bipolar) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:23 |
| S65 | 16 | ((semiconductor near laser) and (driver near circuit) and differential and (bjt or bipolar)) not "ac" | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:31 |
| S66 | 2 | ((semiconductor near laser) and (driver near circuit) and differential and (bjt or bipolar)) and "3" adj v | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:43 |
| S67 | 9 | (semiconductor near laser) and (driver near circuit) and ("3" adj v) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:49 |
| S68 | 7 | (semiconductor near laser) and (driver near circuit) and ("3,5" adj v) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:48 |
| S69 | 1 | (semiconductor near laser) and (driver near circuit) and ("3...5" adj v) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:48 |
| S70 | 2 | (semiconductor near laser) and (driver near circuit) and ("3.0" adj v) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 12:49 |
| S71 | 1 | ((("3" adj v) and (driver near circuit) and differential and (bjt or bipolar)) and "372"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:25 |
| S72 | 3 | ((("3" adj v) and (driver near circuit) and differential and (bjt or bipolar)) and headroom | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:26 |
| S73 | 73 | ("3" adj v) and (driver near circuit) and differential and (bjt or bipolar) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:30 |
| S74 | 71 | ((("3" adj v) and (driver near circuit) and differential and (bjt or bipolar)) and switch\$3 | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:27 |
| S75 | 415 | ("3" adj v) and (driv\$3 near circuit) and differential and transistor\$1 and switch\$3 | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:34 |
| S76 | 4 | ((("3" adj v) and (driv\$3 near circuit) and differential and transistor\$1 and switch\$3) and "372"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:34 |

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| S77 | 170 | ("3" adj v) and (driver near circuit) and differential and transistor\$1 and switch\$3 | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:40 |
| S78 | 1815 | (low near voltage) and (driv\$3 near circuit) and laser | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:47 |
| S79 | 1307 | ((low near voltage) and (driv\$3 near circuit) and laser) and transistor\$1 | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:42 |
| S80 | 8 | ((low near voltage) and (driv\$3 near circuit) and laser) and transistor\$1) and bjt | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:44 |
| S81 | 1203 | ((low near voltage) and (driv\$3 near circuit) and laser) and transistor\$1) and switch\$3 | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:45 |
| S82 | 0 | ((low near voltage) and (driv\$3 near circuit) and laser) and transistor\$1) and switch\$3 and differential | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:45 |
| S83 | 531 | ((low near voltage) and (driv\$3 near circuit) and laser) and transistor\$1) and switch\$3 and differential | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:45 |
| S84 | 930 | (low near voltage near supply) and (driv\$3 near circuit) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:48 |
| S85 | 271 | ((low near voltage near supply) and (driv\$3 near circuit)) and transistor\$1 and switch\$3 and differential | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:48 |
| S86 | 4 | ((low near voltage near supply) and (driv\$3 near circuit)) and transistor\$1 and switch\$3 and differential) and "372"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:51 |
| S87 | 29 | ((low near voltage near supply) and (driv\$3 near circuit)) and transistor\$1 and switch\$3 and differential) and ("3" adj v) | US-PGPUB; USPAT | OR | OFF | 2003/04/19 14:52 |
| S88 | 376 | 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 11:43 |
| S89 | 23 | 372/38.02.ccls. and vcsel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 11:43 |
| S90 | 18 | (372/38.02.ccls. and vcsel) and transistor\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 11:43 |

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| S91 | 18 | ((372/38.02.ccls. and vcsel) and transistor\$1) and current | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 11:44 |
| S92 | 14 | ((((372/38.02.ccls. and vcsel) and transistor\$1) and current) not ac | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 11:45 |
| S93 | 2 | (((((372/38.02.ccls. and vcsel) and transistor\$1) and current) not ac) and headroom | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 15:59 |
| S94 | 4 | (modulat\$3 and current and bias\$3 and transistor and vcsel) and headroom | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 16:01 |
| S95 | 83 | modulat\$3 and current and bias\$3 and transistor and vcsel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 18:17 |
| S96 | 17 | (modulat\$3 and current and bias\$3 and transistor and vcsel) and 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 16:06 |
| S97 | 109 | modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 16:15 |
| S98 | 7 | headroom and 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:32 |
| S99 | 12 | headroom and "372"/\$5.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 16:23 |
| S100 | 81 | (modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 16:26 |
| S101 | 64 | ((modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3) not ac | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:01 |
| S102 | 10 | ((((modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3) not ac) and voltage near3 "3" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:01 |

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| S10 3 | 11 | ((modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3) not ac) and ((voltage or volts) near3 "3") | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:04 |
| S10 4 | 0 | ((modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3) not ac) and (vcc near3 "3") | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:04 |
| S10 5 | 2 | ((modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3) not ac) and (vcc near3 "2") | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:05 |
| S10 6 | 1 | ((modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3) not ac) and ((vcc or (voltage near3 supply) or (power near3 supply)) near3 "3" or "3.1") | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:13 |
| S10 7 | 43 | ((modulat\$3 and current and bias\$3 and transistor and 372/38.02.ccls.) and switch\$3) not ac) and (vcc or (voltage near3 supply) or (power near3 supply)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 18:14 |
| S10 8 | 21 | 372/38.02.ccls. and ((vcc or (voltage near3 supply) or (power near3 supply)) near3 "3" or "3.1") | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:14 |
| S10 9 | 15 | (372/38.02.ccls. and ((vcc or (voltage near3 supply) or (power near3 supply)) near3 "3" or "3.1")) not ac | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 17:14 |
| S11 0 | 3 | (alinas near3 dop\$3 near3 (oxide or oxygen)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 18:04 |
| S11 1 | 68 | (modulat\$3 and current and bias\$3 and transistor and vcel) not ac | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/07 18:17 |
| S11 2 | 11 | ("3.3" near3 volt\$4) and 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:38 |
| S11 3 | 8 | ((("3.3" near3 volt\$4) and 372/38.02.ccls.) not ac | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:33 |
| S11 4 | 0 | ("3.3") and "imod" and "ibias" and 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:39 |

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| S11 5 | 7 | ("3.3") and mod\$8 and bias\$3 and switch\$3 and 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:41 |
| S11 6 | 27 | mod\$8 and bias\$3 and different\$3 near3 switch\$3 and 372/38.02.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:53 |
| S11 7 | 340 | driv\$3 and headroom near3 volt\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:54 |
| S11 8 | 244 | (driv\$3 and headroom near3 volt\$3) not ac | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:54 |
| S11 9 | 25 | ((driv\$3 and headroom near3 volt\$3) not ac) and ("3.3" or "3.0" or "3.1") | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:57 |
| S12 0 | 106 | ((driv\$3 and headroom near3 volt\$3) not ac) and switch\$4 and (low near3 voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:58 |
| S12 1 | 2 | ((driv\$3 and headroom near3 volt\$3) not ac) and switch\$4 and (low near3 voltage)) and vcsel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 08:59 |
| S12 2 | 6 | ((driv\$3 and headroom near3 volt\$3) not ac) and switch\$4 and (low near3 voltage)) and led | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:01 |
| S12 3 | 1 | ((driv\$3 and headroom near3 volt\$3) not ac) and switch\$4 and (low near3 voltage)) and "372"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:01 |
| S12 4 | 1 | ((driv\$3 and headroom near3 volt\$3) not ac) and switch\$4 and (low near3 voltage)) and "372"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:01 |
| S12 5 | 106 | ((driv\$3 and headroom near3 volt\$3) not ac) and switch\$4 and (low near3 voltage)) and 372/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:05 |
| S12 6 | 28 | ((driv\$3 and headroom near3 volt\$3) not ac) and switch\$4 and (low near3 voltage)) and 372/\$.ccls.) and modulat\$4 and bias\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:11 |

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| S12 7 | 4 | (driv\$3 and headroom near3 volt\$3) and vcsel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:12 |
| S12 8 | 340 | (driv\$3 and headroom near3 volt\$3) and 372/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:12 |
| S12 9 | 7 | (driv\$3 and headroom near3 volt\$3) and "372"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:14 |
| S13 0 | 6 | "Imod" and "Ibias" and 372/38.02. ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:16 |
| S13 1 | 16 | "Imod" and "Ibias" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2003/10/08 09:16 |
| S13 2 | 2 | ((("5883910") or ("6272160")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/08/25 13:48 |
| S13 3 | 0 | differential near3 switch\$3 and current near3 source\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/08/25 13:50 |
| S13 4 | 3336 | differential near3 switch\$3 and current near3 source\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/08/25 13:50 |
| S13 5 | 583 | (differential near3 switch\$3 and current near3 source\$1) and modulat\$3 and bias\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/08/25 14:08 |
| S13 6 | 1 | ("4709370").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/08/25 14:00 |
| S13 7 | 37 | ((differential near3 switch\$3 and current near3 source\$1) and modulat\$3 and bias\$3) and "372"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/08/25 14:08 |
| S13 8 | 4 | ("4009385" "4366567" "4449212" "4674093").PN. | USPAT | OR | OFF | 2004/08/25 14:23 |
| S13 9 | 18 | "4709370".URPN. | USPAT | OR | OFF | 2004/08/25 14:24 |
| S14 0 | 0 | current near3 source\$1 same (combin\$6 or sum\$4) and laser near3 driv\$3 and bias\$3 and modualt\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/02 13:24 |

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| S14 1 | 218 | current near3 source\$1 same (combin\$6 or sum\$4) and laser near3 driv\$3 and bias\$3 and modulat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/02 13:25 |
| S14 2 | 86 | (current near3 source\$1 same (combin\$6 or sum\$4) and laser near3 driv\$3 and bias\$3 and modulat\$3) and "372"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/10/02 13:25 |
| S14 3 | 1 | ("4709370").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/10/04 10:34 |
| S14 4 | 2 | ("4709370").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/03 17:02 |
| S14 5 | 195 | 372/38.1.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 13:54 |
| S14 6 | 56 | S145 and driv\$3 and transistor\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:05 |
| S14 7 | 531 | 372/38.02.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:04 |
| S14 8 | 291 | S147 and driv\$3 and transistor\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:06 |
| S14 9 | 131 | 372/38.03.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:04 |
| S15 0 | 40 | S149 and driv\$3 and transistor\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:18 |
| S15 1 | 276 | 372/38.07.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:05 |

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| S15 2 | 116 | S151 and driv\$3 and transistor\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:19 |
| S15 3 | 127 | 372/29.01.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:05 |
| S15 4 | 39 | S153 and driv\$3 and transistor\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/10 11:22 |
| S15 5 | 206 | 372/38.1.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:01 |
| S15 6 | 0 | S155 and driv\$3 and headroom near3 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 13:56 |
| S15 7 | 112 | S155 and driv\$3 and voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 13:57 |
| S15 8 | 45 | S155 and driv\$3 near3 diode | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 13:59 |
| S15 9 | 58 | S155 and (driv\$3 near3 (diode or transistor\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:29 |
| S16 0 | 553 | 372/38.02.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:29 |
| S16 1 | 314 | S160 and (driv\$3 near3 (diode or transistor\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:07 |

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| S16 2 | 285 | S160 and (driv\$3 near3 (diode or transistor\$1)) and voltage and current | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/10 14:07 |
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